

Fig. 1

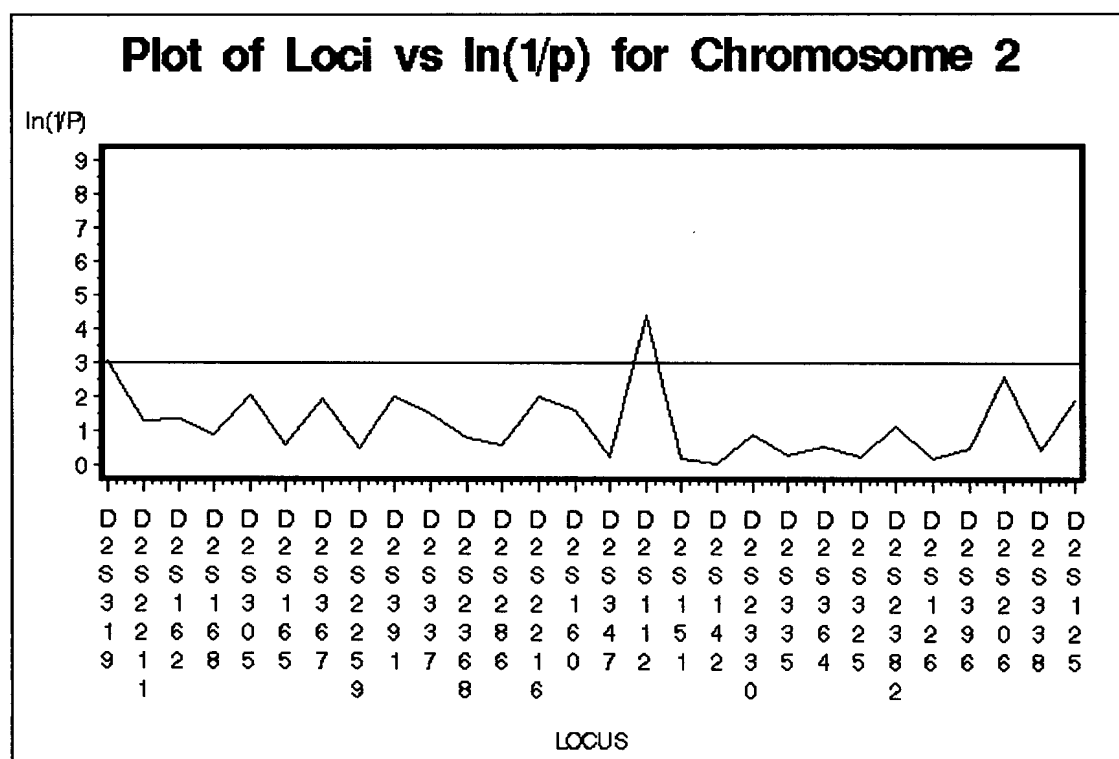
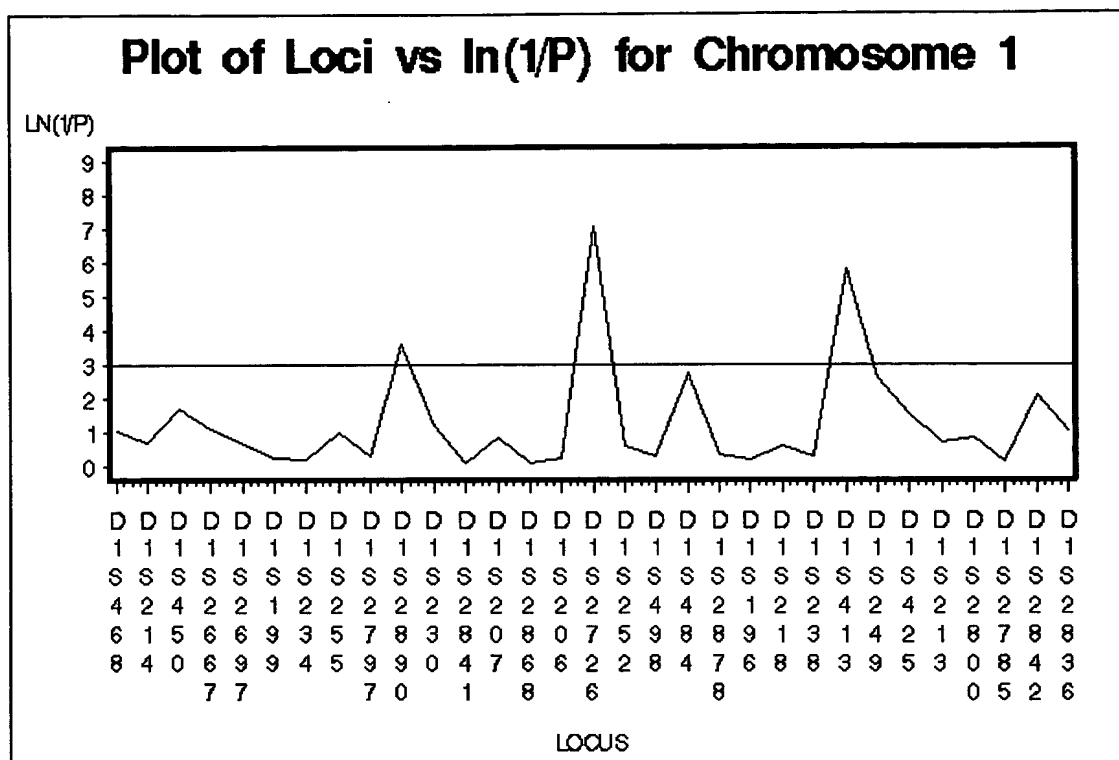


Fig. 2-1

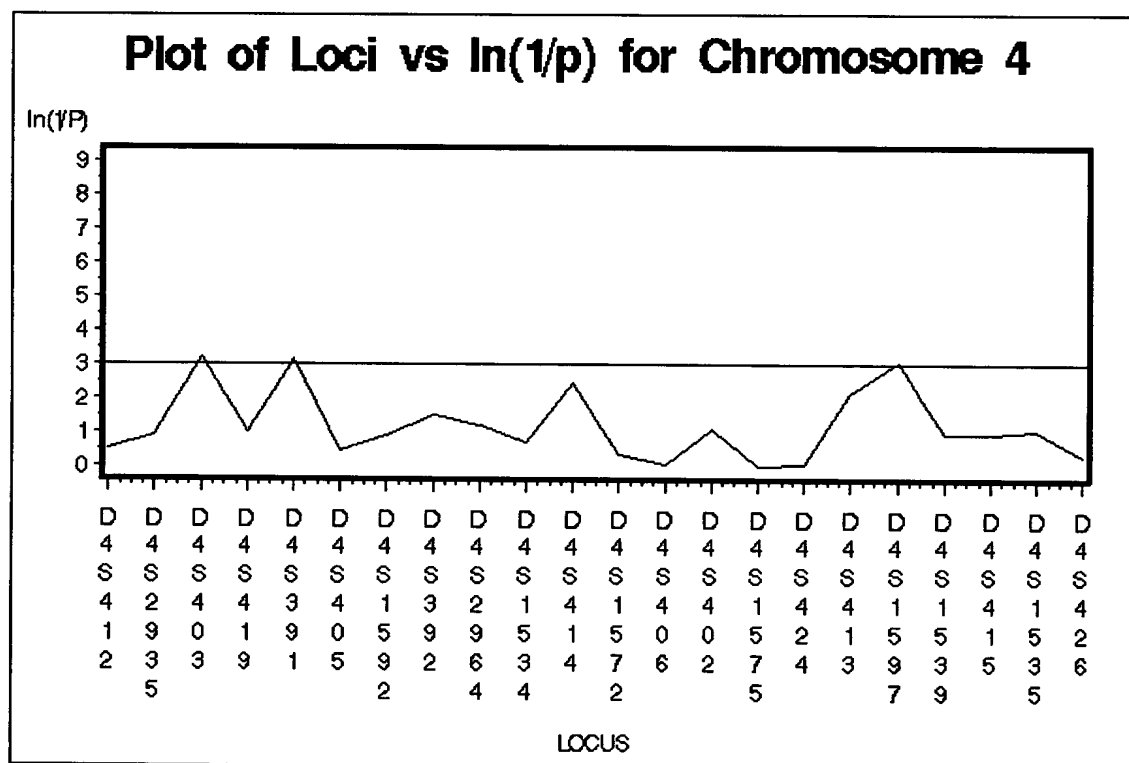
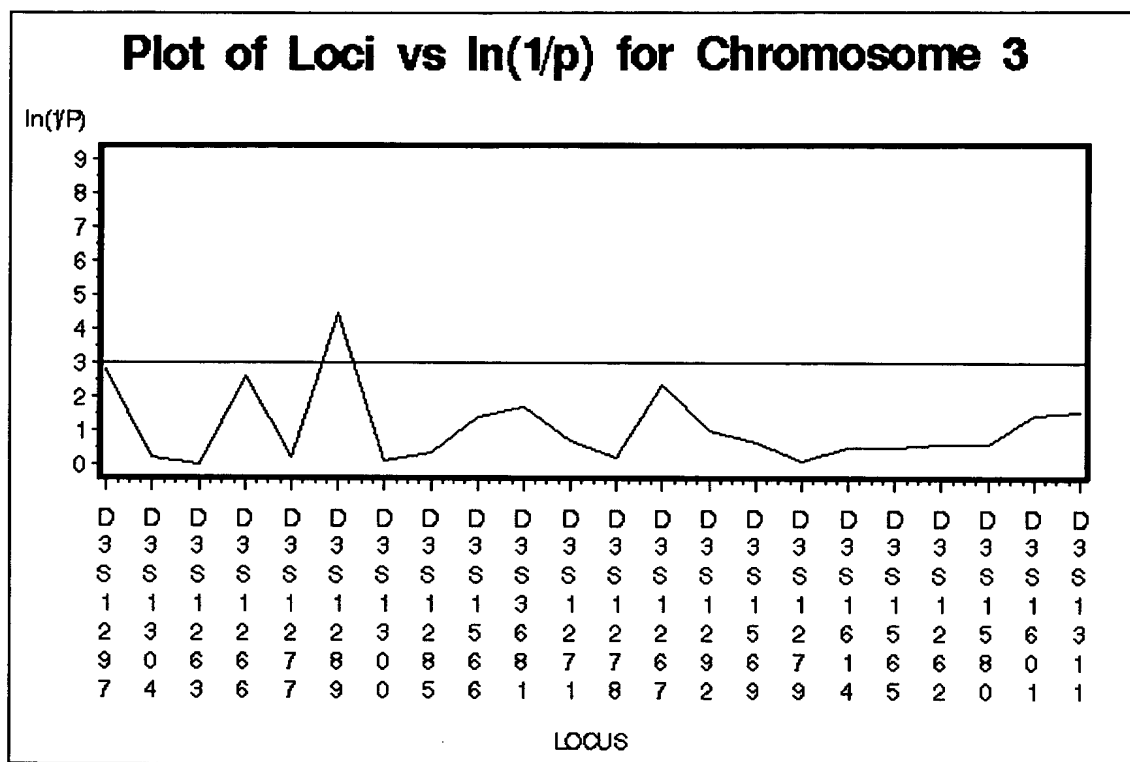


Fig. 2-2

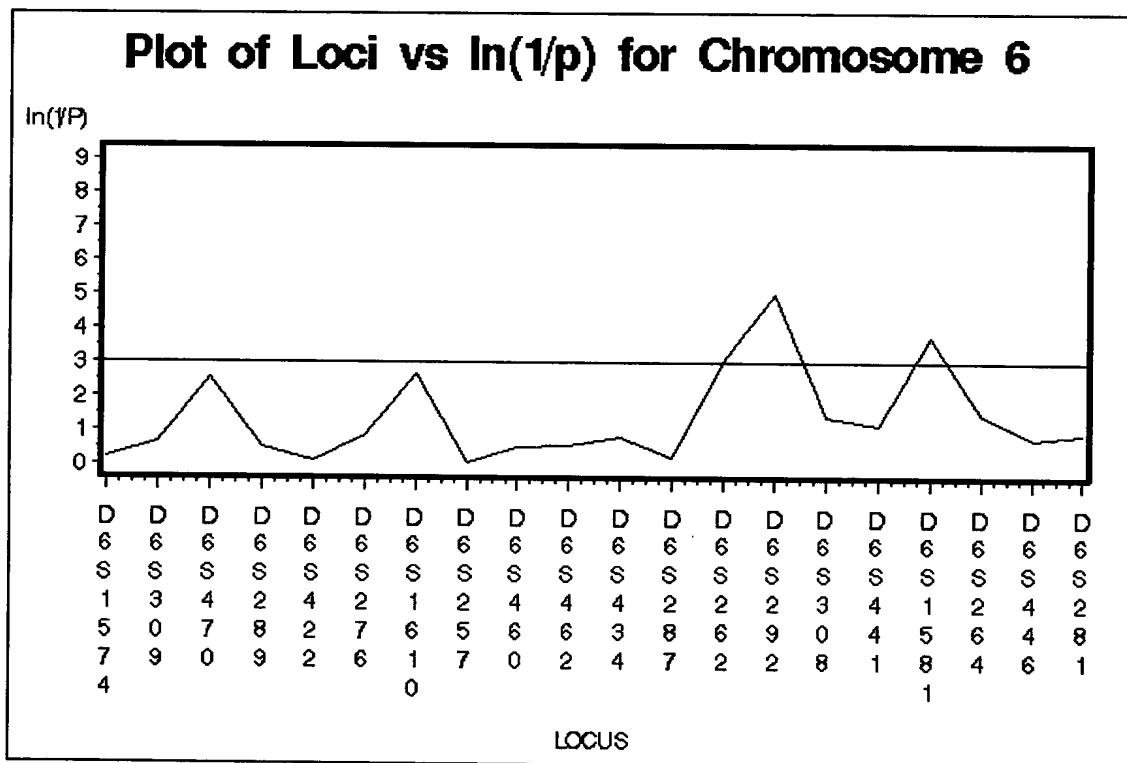
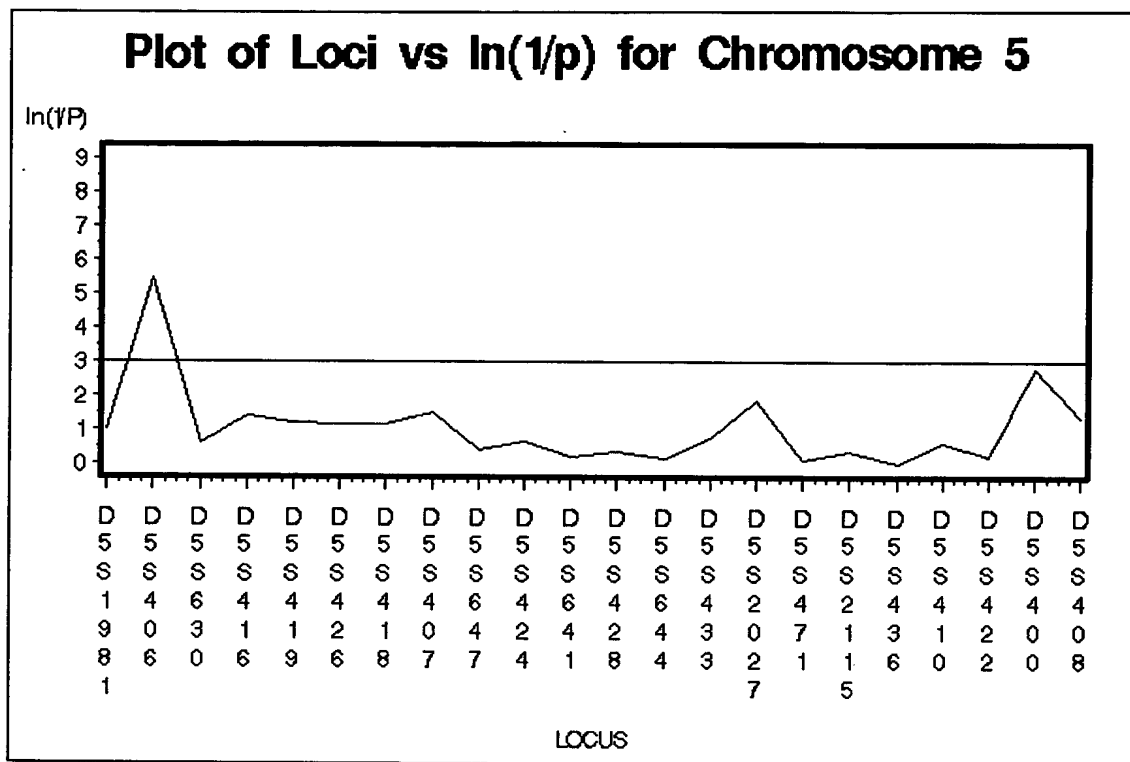


Fig. 2-3

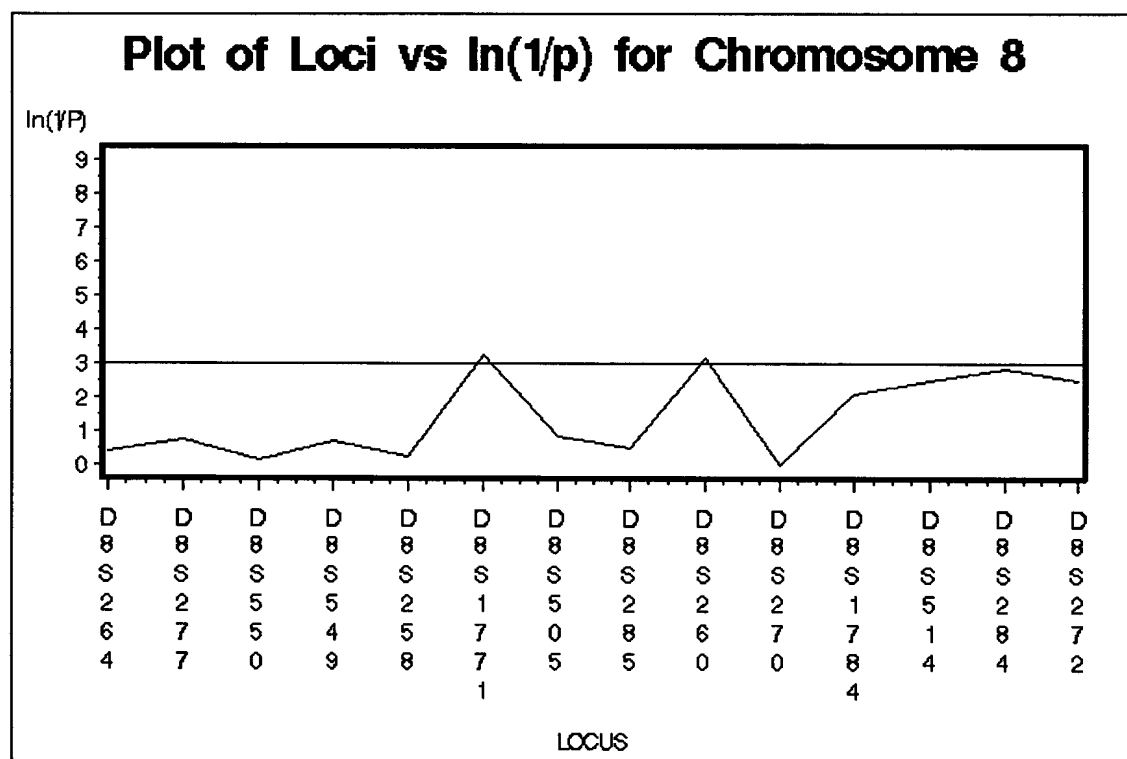
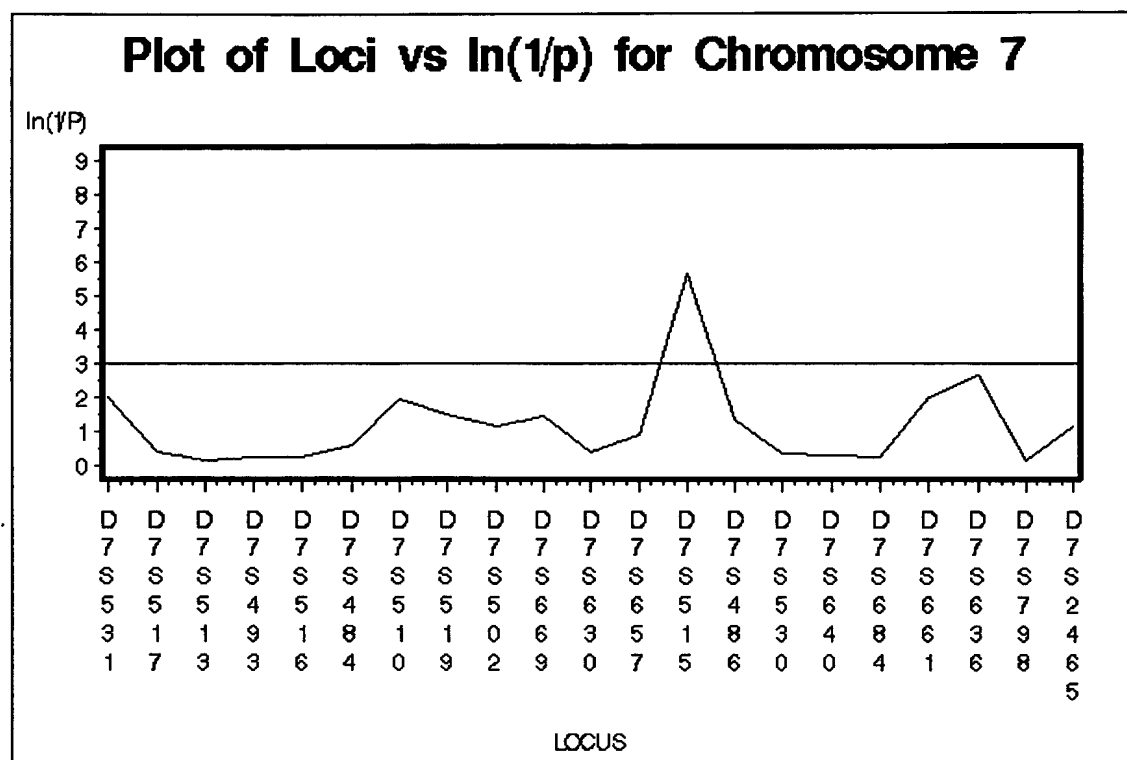


Fig. 2-4

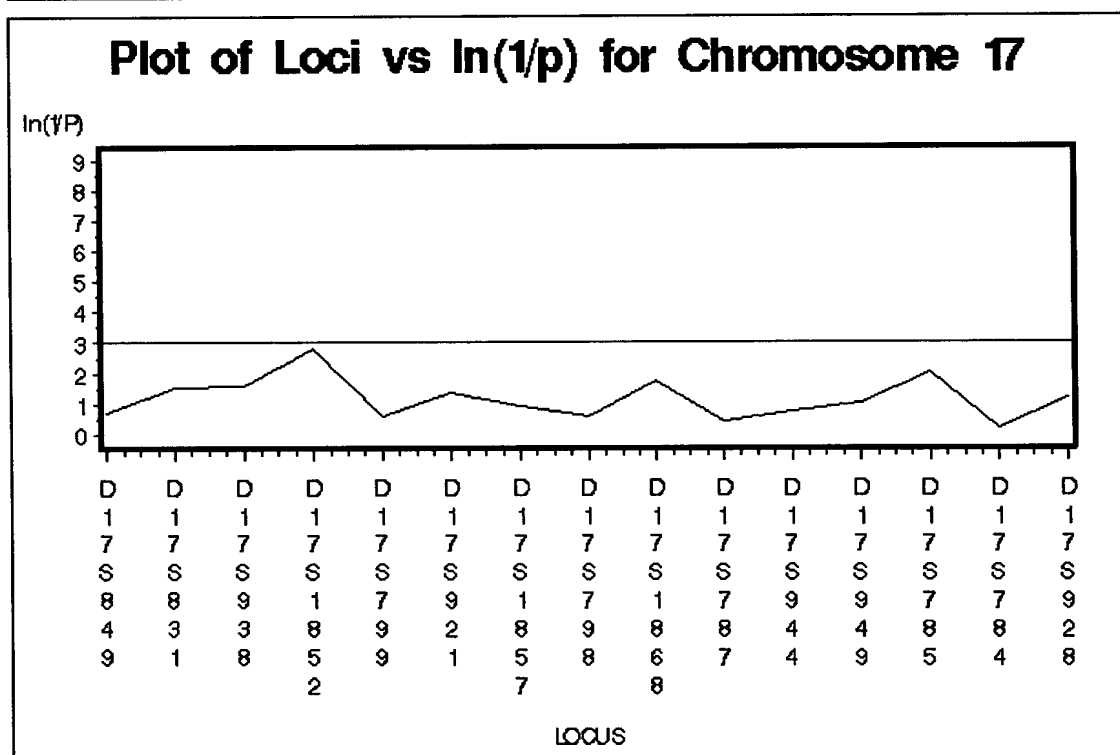
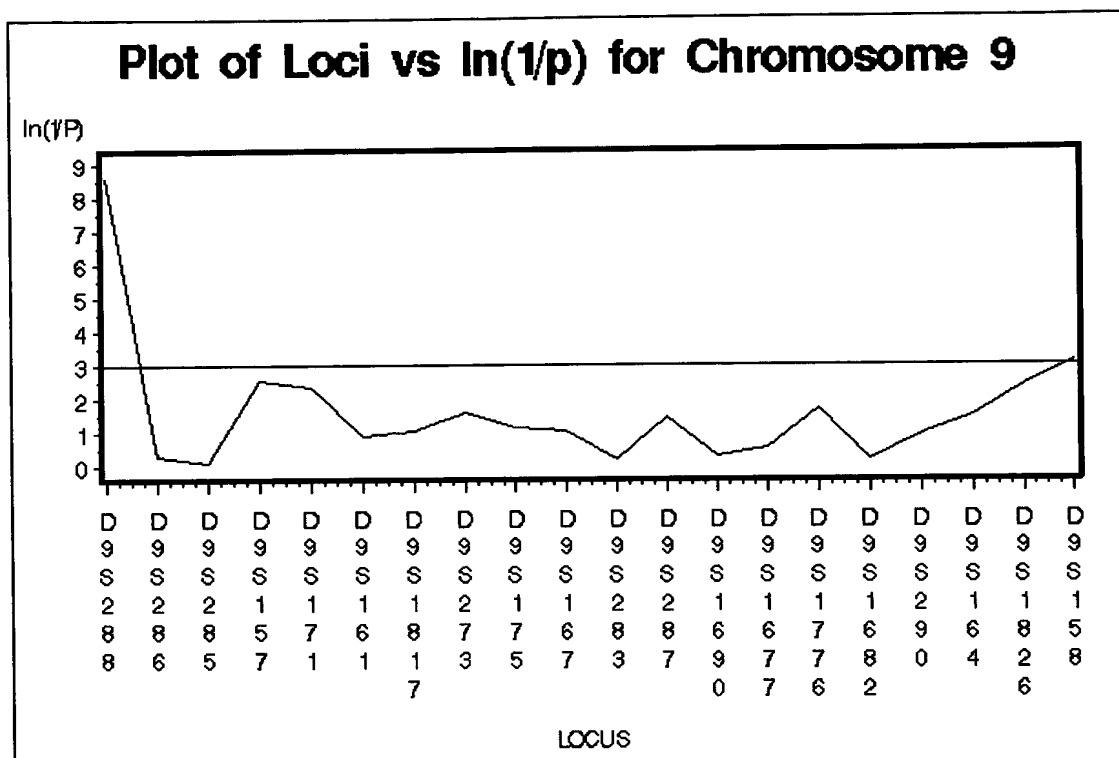


Fig. 2-5

Locus	R/NR	allele No.	p-value	meaningful allele-bp (count in R/NR)	OR (allele)	meaningful genotype (count in R/NR)	OR (genotype)
D1S2890	46/53	8	0.0279	E-226 (28/56), G-230 (25/15)	0.39 (0.22--0.70), 2.26 (1.1--4.62)	EE (3/16), GG+Gx (22/14)	0.39 (0.16--0.91), 2.55 (1.10--5.92)
D1S413	46/53	10	0.003	A-252 (23/10), C-256 (6/18)	3.2 (1.43--7.15), 0.34 (0.13--0.90)	AA+Ax (20/10), CC+Cx (6/16)	3.31 (1.34--8.15), 0.347 (0.123--0.98)
D2S319	43/52	8	0.0471	F-136 (21/12)	2.477 (1.14--5.39)	FF+Fx (20/12)	2.90 (1.20--6.99)
D3S1289	43/51	8	0.0116	F-213 (12/3)	5.35 (1.46--19.65)	FF+Fx (12/3)	6.19 (1.62--23.73)
D4S391	46/53	10	0.0424	D-162 (26/16)	2.22 (1.10--4.46)	DD+Dx (22/14)	2.55 (1.10--5.92)
D5S406	46/53	11	0.0043	H-182 (24/45)	0.49 (0.17--0.90)	HH+Hx (19/34)	0.41 (0.18--0.93)
D6S1581	46/53	8	0.0241	B-261 (31/19)	2.33 (1.20--4.49)	BB+Bx (27/17)	3.00 (1.32--6.85)
D6S292	46/52	11	0.0067	no found	no found	no found	no found
D6S470	46/53	10	0.0779	H-138 (7/17)	0.43 (1.70--1.09)	no found	no found
D7S515	43/51	14	0.0035	H-173 (29/16)	2.73 (1.36--5.49)	HH+Hx (26/15)	3.67 (1.56--8.66)
D8S260	43/51	10	0.043	F-208 (16/34)	0.46 (0.23--0.90)	FF+Fx (13/29)	0.33 (0.14--0.77)
D8S514	43/51	7	0.0817	E-288 (29/50)	0.53 (0.10--1.25)	no found	no found
D9S288	46/53	13	0.00019	D-137 (19/6), K-151 (1/15)	4.34 (1.65--11.40), 0.07 (0.01--0.52)	DD+Dx (17/6), KK+Kx (1/14)	4.59 (1.62--12.98), 0.06 (0.008--0.49)
D17S785	46/54	13	0.1322	C-173 (12/3)	5.25 (1.43--19.23)	CC+Cx (12/3)	6.00 (1.57--22.86)

R : Responder

NR : Non-Responder

x : otherwise allele

Fig. 3

Parameter	DF	Estimate	Standard Error	Wald Chi-square	Pr>ChiSq
Intercept	1	0.2105	0.3857	0.2978	0.5853
D1S2890	1	-2.1671	0.7297	8.8200	0.0030**
D5S406	1	-1.1377	0.4696	5.8697	0.0154*
D6S1581	1	1.2904	0.4686	7.5846	0.0059**

Fig. 4

Predictor

D1S2890EE	D5S406Hy	D6S1581By	P(R)	R	NR	P(NR)
1	1	1	0.14	0	3	0.86
1	1	0	0.04	1	5	0.96
1	0	1	0.34	1	4	0.66
1	0	0	0.12	1	4	0.88
0	1	1	0.59	11	9	0.41
0	1	0	0.28	7	16	0.72
0	0	1	0.82	15	1	0.18
0	0	0	0.55	10	11	0.45

y : any allele 1:exist
 0:otherwise

Fig. 5

Logistic Regression for Genotype

Responder: 46 ; Non-Responder: 53

P(R): prob. for response

logit P(R)=0.2105-2.1671(D1S2890EE)

-1.1377(D5S406Hx)

+1.2904(D6S1581Bx)

$$P(R) = \frac{e^{\text{logitp}(R)}}{e^{\text{logitp}(R)} + 1}$$

Fig. 6

Parameter	DF	Estimate	Standard Error	Wald Chi-square	Pr>chiSq
Intercept	1	-2.1114	0.5002	17.8174	<.0001***
D3S1289	1	2.0896	0.8191	6.5089	0.0107**
D7S515	1	1.7561	0.5712	9.4533	0.0021**
D9S288	1	1.9955	0.6684	8.9118	0.0028**
D17S785	1	2.5142	0.8148	9.5212	0.0020**

Fig .7

Predictor

Fig. 8

D3S1289Fy	D7S515Hy	D9S288Dy	D17S785Cy	P(R)	R	NR	P(NR)
1	1	1	1	0.998	0	0	0.002
1	1	1	0	0.977	1	0	0.023
1	1	0	1	0.986	1	0	0.014
1	1	0	0	0.850	1	1	0.15
1	0	1	1	0.989	0	0	0.011
1	0	1	0	0.878	3	1	0.122
1	0	0	1	0.924	2	0	0.076
1	0	0	0	0.495	3	1	0.505
0	1	1	1	0.985	1	0	0.015
0	1	1	0	0.838	7	1	0.162
0	1	0	1	0.896	4	0	0.104
0	1	0	0	0.412	9	13	0.588
0	0	1	1	0.917	0	0	0.083
0	0	1	0	0.471	3	3	0.529
0	0	0	1	0.599	3	3	0.401
0	0	0	0	0.108	3	27	0.892

y: any allele

1:exist

0:otherwise

Logistic Regression for Genotype

Responder: 41 ; Non-Responder: 50

P(R): prob. for response

$$\begin{aligned}\text{logit } P(R) = & -2.1114 + 2.0896(\text{D3S1289Fy}) \\ & + 1.7561(\text{D7S515Hy}) + 1.9955(\text{D9S288Dy}) \\ & + 2.5142(\text{D17S785Cy})\end{aligned}$$

$$P(R) = \frac{e^{\text{logit } P(R)}}{e^{\text{logit } P(R)} + 1}$$

Fig. 9

Predictor

P(R)	N(R)	D2S319	D3S1289	D4S391	D7S515	D17S785	N(NR)
0.034	1	0	0	0	0	0	15
0.147	1	0	0	1	0	0	7
0.212	1	1	0	0	0	0	6
0.287	5	0	0	0	1	0	9
SUM	8						37
0.318	0	0	0	0	0	1	2
0.366	1	0	1	0	0	0	2
0.565	3	1	0	1	0	0	2
0.662	4	0	0	1	1	0	4
0.693	1	0	0	1	0	1	0
SUM	9						10

1:exist

0:otherwise

Fig. 10

Fig. 11

P(R)	N(R)	D2S319	D3S1289	D4S391	D7S515	D17S785	N(NR)
0.737	2	0	1	1	0	0	0
0.753	4	1	0	0	1	0	1
0.779	2	1	0	0	0	1	1
0.814	0	1	1	0	0	0	0
0.841	3	0	0	0	1	1	0
0.868	1	0	1	0	1	0	1
0.884	1	0	1	0	0	1	0
0.937	4	1	0	1	1	0	0
0.945	0	1	0	1	0	1	0
0.955	3	1	1	1	0	0	0
0.962	1	0	0	1	1	1	0
0.970	1	0	1	1	1	0	0
0.974	0	0	1	1	0	1	0
0.976	0	1	0	0	1	1	0
0.980	0	1	1	0	1	0	0
0.983	1	1	1	0	0	1	0
0.989	1	0	1	0	1	1	0
0.995	1	1	0	1	1	1	0
0.996	0	1	1	1	1	0	0
0.996	0	1	1	1	0	1	0
0.998	0	0	1	1	1	1	0
0.998	0	1	1	0	1	1	0
1.000	0	1	1	1	1	1	0
SUM	25						3